ENVIRONMENTAL CHEMISTS

Date of Report: 05/26/99 Date Received: 05/13/99

Project: Metro Self Monitor, PO# M61966

Date Samples Extracted: 05/21/99 Date Extracts Analyzed: 05/21/99

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

Samples Processed Using Method 3005A Results Reported as mg/L (ppm)

Sample ID		<u>Chromium</u>	Copper	Nickel	<u>Zinc</u>
M61966		0.46	0.51	0.38	0.07
Method Blan	ık	< 0.05	< 0.05	< 0.05	< 0.05

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Project: Metro Self Monitor, PO# M61966

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 905057-01 (Duplicate)

	발표 경기 하다 뭐는 것이		Relative		
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.46	0.47	2	0-20
Copper	mg/L (ppm)	0.51	0.53	4	0-20
Nickel	mg/L (ppm)	0.38	0.39	3	0-20
Zinc	mg/L (ppm)	0.07	0.09	25a	0-20

Laboratory Code: 905057-01 (Matrix Spike)

		Reporting	Spike	Sample	% Recove	ery % Recove	ry Acceptance	
١.	Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
	Chromium	mg/L (ppm)	5	0.46	102	95	80-120	7
	Copper	mg/L (ppm)	5	0.51	99	95	80-120	4
	Nickel	mg/L (ppm)	10	0.38	104	95	80-120	9
	Zinc	mg/L (ppm)	5	0.07	107	100	80-120	7

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recov	ery % Recove	ery A	cceptance		
Analyte	Units	Level	LCS	LCSD		Criteria	RPD)
Chromium	mg/L (ppm)	5	97	96		80-120	1	1966
Copper	mg/L (ppm)	5	95	93		80-120	2	
Nickel	mg/L (ppm)	10	100	102		80-120	2	
Zinc	mg/L (ppm)	5	100	106		80-120	6	

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

905057

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SAMPLE CHAIN OF CUSTODY

Send Report To: Company Address 628 City, State, Zip Seed	andrine 800.	28174 28174	, 5	Contact(Seald Than	psol				
Phone #(206) 382-	8779	FAX #	(20G)	382-9009	Date 5-13-8	9				
SITE NO.		PROJ	ECT NAME	!	· ·					
PURCHASE ORDER #										
SAMPIJERS (signature) Medro Self monitor M 61966 PROJECT LOCATION										
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REMARKS					<u> </u>	i i				
SAMPLE DISPOSAL INFORMATION Dispose after 30 days Return Samples Call for Instructions										
Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyso Request					
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FORMS/COC

05/11/99

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 26, 1999

DUPLICATE COPY

INVOICE #99ACU0526-2

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M61966: Results of testing requested by Gerry Thompson for material submitted on May 13, 1999.

FEDERAL TAX ID(b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 26, 1999

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 13, 1999 from your Metro Self Monitor, PO# M61966 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Manuel Marti Project Manager

Enclosures ACU0526R.DOC